



Air Force Invention No. AFB00497

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On 19 November 2004
(DATE OF DEPOSIT)

Thomas C. Stover 22,531
NAME OF APPLICANT, ASSIGNEE, OR REG. REP.

TC Stover 19 November 2004
SIGNATURE DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re CIP Application of
Geoff P. Andersen
Application Serial No. 09/427,457
Filed: 16 October 1999
For: **HOLOGRAPHIC IMAGE CORRECTOR**

Group Art Unit: 2872
Examiner: A. Chang

Honorable Commissioner for Patents
Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

I, Geoff P. Andersen of Colorado Springs, Colorado, declare and say that:

1. I am the sole inventor in the above-identified application, effectively filed on 16 April
- 1997.

2. I have a PhD in Physics (Optics) and am an adjunct a professor at the Air Force
Academy here in Colorado.

3. I have conducted research and experiments in writing holograms with split laser beams
to correct for aberrations in lenses so as to receive accurate images therethrough.

4. It appears that a recent Office Action, dated 8-19-04, in ¶ 6, has objected to the above application as only giving support for using an objective to create an object beam. The Office Action also alleges that the lens 46 of my Figure 3 is not an imaging lens but only creates collimated light.

5. Based on my 14 years of experience in the optics field and numerous holographic experiments, I can state first-hand, that the object beam is one of the two beams required to make a hologram.

6. In the case of this holographically corrected microscope, the object beam is that beam which passes through two lenses; an objective lens (Part 44) and an imaging/collimating lens (Part 46), e.g., per my Figures 3 & 4. This is clearly noted in the specification at page 7, lines 1-9, where beam 39, after passing through objective 44 & lens 46, is described, with reference to Figure 3, as object beam 39, as it arrives at hologram 40.

7. Further, I can state, from my years of experience in the field, that lens 46 of Figure 3, serves both as a collimating lens and an imaging lens. It collimates the wavefront passing through it, while at the same time produces an image of the objective onto the hologram.

8. I further declare that my statements herein, made of my own knowledge are true and that all statements made on information and belief are believed to be true; and furthermore that these statements were made with the knowledge that willful false statements and the like so made, are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

19 November 2004

Geoff P. Andersen, Declarant

